astrium
Space Infrastructure

Technical Note

Titel:
Title:

Columbus Ground System (CGS) Release Notes V4.4.1

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1 Identification of Delivery

This delivery contains the nessessary files to install the Columbus Ground System (CGS) CI Number 1214 597, in its version CGS_V4.4.1

The version includes fixes to a number of corrections to overcome problems reported in SPRs (see below).

The delivery comprises a complete CGS system.

This delivery comprises the following components:

- CGSI
- CLS
- CSS
- DBS
- FWDU
- GWDU
- HCI
- MDA / MDB_V4_3_0
- NWSW
- SWES
- TES
- TSCV
- TEV
- TSS
- CGS_API

The following products are not changed:

none

The software has been verified running specific SPR regression testing as well as rerunning a subset of the CGS qualification procedures.

2 List of fixed SPRs

2.1 List of SPRs

SPRs **fixed** in this delivery and formally **released**:

ID	TITLE	PRODUCT
SPR–5423	'set of statecode' types not supported by UCL compiler	CLS
SPR–5424	Deletion and Recreation of archived test sessions	TEV
SPR–5458	CLS: code generation for statecode types incomplete	CLS
SPR–5465	Final Archiving (FA) – list window not updated	DBS
SPR–5492	bad format for long pathnames in RAW DATA DUMP TOOL	TEV
SPR–5627	Use of synchronisation points in APM SIMM	CSS
SPR–5867	Startup problem with CSS–Simulator/CMAS	CSS
SPR–5880	Error when reading write protected FA medium	DBS
SPR–6044	Fin. Arch. SAS does not work automaticly in batch mode	TSCV
SPR–6050	I_MDB: text for CCSDS_TC packet length is misleading	CGS
SPR–6171	FA SAS does not display existing media label	DBS
SPR–6173	CPL Compiler Problem	CLS
SPR–6217	DDED:different behaviour after <Return> and mouse click	MDA
SPR–6235	stop_acquisition command returns wrong status	TES
SPR–6385	Provide CCU Freeze and unfreeze functionality in SDDF	MDA
SPR–6411	incorrect system library call with open string	CLS
SPR–6496	FA SAS crashed – if not EVALUATION on disk	DBS
SPR–6568	FA SAS Usage Problem	DBS
SPR–6622	Function blocks which are e.g. copied are invisible during positioning phase	CSS
SPR–6761	Position and colour of HCI popup windows (Call–666)	TES
SPR–6792	CSS refuses saving of edited model	CSS
SPR–6912	Missing information in FA device manager tool	DBS
SPR–7031	Consistency Checker doesn't find undef. mandatory aggr.	MDA
SPR–7085	Upper/Lower case state codes	MDA
SPR–7131	CGS CMAS installation destroys project specific version	CGSI
SPR–7154	TSS Offset Distribution	TES
SPR–7176	Allow starting of HLCL command window from Synoptic Display	HCI
SPR–7179	CLS Editor CCU/CDU scope not visible to user	CLS
SPR–7219	CSS: Problems with References	CSS
SPR–7224	Can not reference CCU	MDA
SPR–7228	RawDataDump write filesystem full	TEV
SPR–7239	Scroll–bar not shown in multi–record aggregate ROUTING	MDA
SPR–7277	Discrete Calibration	HCI
SPR–7285	I_MDB: ASV copies all CCU names	MDA
SPR–7318	TEV import tool is not able to import a session	DBS
SPR–7337	manual archiving failed	DBS
SPR–7340	CGS/CLS: UCL compiler allows ground imports in onboard APs	CLS
SPR–7347	Ground_Library.WRITE_MESSAGE_TO_USER Missing Parameter	TES
SPR–7373	SDDF/CGS documenation out of date	CGS
SPR–7414	Double Reference Error for disjunct CCU	MDA
SPR–7416	Load Scoe Error: VALUE_OUT_OF_RANGE	HCI
SPR–7417	TEV can't handle large files	TEV
SPR–7478	TEV – EVENT TOOL inefficient	TEV
SPR–7501	Ground_Library: Display Picture: Missing Parameter (Size and Location)	TES

SPR–7517	decode	CLS
SPR–7560	CLS Tools not official	CLS
SPR–7573	MDB pathname/SID does not work	MDA
SPR–7627	CLS Internal Error for Word parameter with default	CLS
SPR–7643	Timestamps in Message–Handler corrupted after Replay Session	TES
SPR–7695	Unneccesary check by consistency checker	MDA
SPR–7701	Inconsistencies between model and kernel possible!	CSS
SPR–7736	CLS Editor reports: Undefined parameter size	CLS
SPR–7742	Unsuccessful logins not recognized in logfiles	CGS
SPR–7788	Monitoring AP: Output to all Message–Servers, Default HCI	TES
SPR–7801	Consistency Checker CCSDS length vs variable definition error	MDA
SPR–7802	TEV data result contains spurios formatting characters	TEV
SPR–7809	Batch UCL compilation not really in batch fashion	MDA
SPR–7841	Check OK – but M_8 doesn't belong to an ADU	TEV
SPR–7848	Could not create a CDU under the system tree	MDA
SPR–7857	Empty window in error case	TEV
SPR–7862	DDED creates empty records	MDA
SPR–7870	Wrong activity status	TEV
SPR–7871	Could not move files if filename is too long	TEV
SPR–7885	Could not retrieve an eval session after archiving	TEV
SPR–7901	End Item Monitoring – missing limit–band re–entry message	TES
SPR–7902	List of measurements 'out of limit' not available	HCI
SPR–7920	DDED leaves hidden data	MDA
SPR–7925	Extend the Bit Stream Layout	MDA
SPR–7939	MDA:Case sensitive I_MDB "Create Node" function.	MDA
SPR–7940	Used Position Number in Bit Stream Layout must be unique	MDA
SPR–7943	MDA/I_MDB:update of user tree nodes properties leads to a deadlock	MDA
SPR–7945	FA_SAS: Contents List of FA dev shows no date of testsession	DBS
SPR–7969	EGSE_PREDEFINED_TC: Missing checks for General Bitstream Layout	MDA
SPR–8000	No snapshot during model execution	CSS
SPR–8010	CSS Database Browser hangs	CSS
SPR–8035	TEV: Event_Logging, User_Event Field not disabled	TEV
SPR–8060	CGS/CLS: CONSTRAINT_ERROR in default init. for strings	CLS
SPR–8112	Internal error ('constraint_error') if ALIAS references invalid pathname	CLS
SPR–8124	TEV Test Session Export to FA	TEV
SPR–8135	User login script not executed in case of graphical login	CGSI
SPR–8220	Array definition with units not compiled (Call 974)	CLS
SPR–8232	Additional functionality in CSS Observer required	CSS
SPR–8241	CGSI cshrc blows up PATH environment variable	CGSI
SPR–8302	SIMM delivered with MDBD 4.4.1 is unusable	CSS
SPR–8303	CMU1 – CMU4 Reset FLAP checks wrong statecode	CLS
SPR–8326	Enh: system–wide NTP synchronisation status not available	TSS
SPR–8342	DBS_INTERNAL_PROBLEM when DISK FULL	DBS
SPR–8391	css_db_server crash resp. hang up	CSS
SPR–8402	Compilation of Automated Procedure raises Internal error	CLS
SPR–8427	CC complains erroneously monotony of point pair calibration	MDA
SPR–8449	I_MDB: Missing error message	MDA
SPR–8455	I_MDB: Message in the window footer not cleared	MDA
SPR–8476	TSCV crashes during deletion of test sessions	TSCV
SPR–8501	BDE – load scoe inconsistency (numerical problem)	MDA
SPR–8524	CHECK_MDB_ITEM: Range check failure in ADU measurement list	MDA
SPR–8526	MDA "add system tree version" does not correctly work for test versions	MDA
SPR–8539	I_MDB: Switch CDU Version within active CCU Scope	MDA
SPR–8540	CSS Adaptation Browser design insufficient	CSS
SPR–8557	ASV: Error with different system tree node SIDs	MDA
SPR–8578	I_MDB abort during "Maintain Ref" of a CCU version	MDA

SPR–8582	Multiple CCU selection	MDA
SPR–8596	CCU references on same System Tree Node	MDA
SPR–8621	IMDB: Interface error C –> ADA	MDA
SPR–8653	HLCL Interpreter internal (CONSTRAINT–) error	CLS
SPR–8669	MDBD Ownership concept must be revised; FDBOARD IN WORK	MDA
SPR–8692	MDA: Copy Problem with USER_DEF_SIDS aggregates	MDA
SPR–8693	System tree upgrade may cause CCU import to fail containing unchanged CDUs	MDA
SPR–8717	Packing of model aborted with ORACLE Error ORA–01843	CSS
SPR–8720	OB Flag not stored for EVENT_MESSAGE with empty Param List	MDA
SPR–8727	Problem with /testnode directories after update	CGSI
SPR–8736	Error in CLS_EXPRESSION_PARSER: Uninitialized value used	CLS
SPR–8762	Derived Parameter	MDA
SPR–8771	CGS/CLS: Missing check vor subrange conversion	CLS
SPR–8772	CGS/CLS: Conversion raises CONVERSION_ERROR	CLS
SPR–8773	CGS/CLS: UCL compiler refuses conversions to subtype	CLS
SPR–8793	CLS Compiler generates Internal Error	CGS
SPR–8800	FA SAS cannot be started from TEV	TEV
SPR–8801	New SWES not installed	SWES
SPR–8826	BDE out core dump	MDA
SPR–8837	MDA/DDED: ORACLE error when executing the DDED in scope of CCU .	MDA
SPR–8838	MDA/I_MDB–>Open does not support the variant record concept implemented	MDA
SPR–8851	MDA create_common.sql does not work	MDA
SPR–8868	closing archive file does not work	TES
SPR–8871	All HCI windows disappear (Xview exit)	HCI
SPR–8894	No selection of virtual nodes possible in monitoring window	HCI
SPR–8895	Not all selected items visible in monitoring canvas	HCI
SPR–8896	Properties window not actualised	HCI
SPR–8909	GO/NOGO window lets HCI crash	HCI
SPR–8916	UCL: Wrong code for CASE statement with ELSE part	CLS
SPR–8917	FWDU Command Table Definition changes not implemented	CLS
SPR–8920	DDED: FROZEN_ERROR failure (patch 4.3.1P6)	MDA
SPR–8925	Data not online reported when requesting session size	DBS
SPR–8930	I–Code restriction (jump too long)	CLS
SPR–8935	Waste of disk space	TEV
SPR–8946	Error in CLS_TYPES: Uninitialized value used	CLS
SPR–8949	TEV: Statistics Generation fails when disk is full	TEV
SPR–8974	TEV: Tool Crash in Raw Data Dump	TEV
SPR–8981	Synoptic Picture hanging	HCI
SPR–8990	No busy indication when interrupted	TEV
SPR–9007	Communication problems	CGS
SPR–9009	Wrong temporary tablespace for CGS users	CGSI
SPR–9049	Inserting CDU in CCU does no longer work	MDA
SPR–9050	Consistency Checker Message: Out of range of Danger Limits	MDA
SPR–9057	$GSAF_HOME/cgs/util/saveCGSconf: MDB export files not copied correctly	CGSI
SPR–9086	Wrong content of supplement string	HCI
SPR–9093	Menu items of popup menus not shown correctly	HCI
SPR–9119	SQL–scripts imp_cgs_standard_aggs/load_cgs_standard_agg: wrong MDB version	MDA
SPR–9120	Consistency Checker: Discrete Calibration Check erroneouss	MDA

SPRs **partially fixed** in this delivery, and kept **formally open** for next delivery:

ID	TITLE	PRODUCT
SPR–7231	Over enthusiastic checking of point–pair calibration –> The consistency checks need further alignments	MDA
SPR–7800	Communication Problems –> The described problem is fixed. The SPR remains open to cover additional changes in the communication software for next delivery	CGS
SPR–9069	Exception: ACCESS_DENIED raised in SW Unit Exception: p_tes_con_exec.opcs_init –> The described problem is fixed. The SPR remains open to cover additional changes in the TSCV software for next delivery	

2.2 Covered Quick Patches

Several of the implemented SPRs have been provided as Quick Patches to CGS_4.3.0/4.3.1 already, but are now formally released in this delivery. The following Quick Patches are included into CGS_V4.4.1:

CGS_4.3.0P9

CGS_4.3.1P1 .. CGS4.3.1P11

2.3 List of Issues

Change–Issues implemented in this release.

Status	Author	CHANGE–ID	DATE	SYNOPSIS
––.P–.I–.T–.Q–	froese	MDA–SPR–9146	01/01/18	I_MDB: CDU status in pathname incorrec
––.P–.I–.T–.Q–	werner	DBS–ENH–87	01/01/16	Avoid local DBS warning message on sta
––.P–.I–.T–.Q–	adt_3	HCI–ENH–211	01/01/16	Monitoring/Gonogo Window
––.P–.I–.T–.Q–	adt_3	HCI–ENH–210	01/01/16	Monitoring/Gonogo Windows
––.P–.I–.T–.Q–	ilenz	MDA–SPR–9120	01/01/12	Consistency Checker: Discrete Calibrat
––.P–.I–.T–.Q–	ilenz	MDA–SPR–9119	01/01/12	SQL–scripts imp_cgs_standard_aggs & lo
––.P–.I–.T–.Q–	werner	DBS–SPR–8835.1	01/01/12	Event– and Archive–Files not stored in
––.P–.I–.T–.Q–	froese	MDA–SPR–8669.5	01/01/11	MDBD Ownership concept must be revised
––.P–.I–.T–.Q–	danne	CGSI–ENH–444	01/01/11	CGS_UserManual_2_L_4_4_0.pdf
––.P–.I–.T–.Q–	werner	DBS–SPR–8632	01/01/11	Error in DBS file handler
––.P–.I–.T–.Q–	werner	DBS–SPR–8835	01/01/11	Event– and Archive–Files not stored in
––.P–.I–.T–.Q–	danne	HCI–SPR–8981.1	01/01/11	Synoptic Picture hanging
––.P–.I–.T–.Q–	danne	HCI–ENH–208	01/01/11	Bug fix: login seq. with too many quot
––.P–.I–.T–.Q–	danne	HCI–SPR–9086	01/01/11	Wrong content of supplement string
––.P–.I–.T–.Q–	adt_3	HCI–SPR–9093	01/01/11	Menu items of popup menus not shown co
––.P–.I–.T–.Q–	froese	MDA–ENH–4440	01/01/11	IMDB: Forgotten quotations marks in he
––.P–.I–.T–.Q–	adt_3	TSCV–SPR–6568	01/01/10	FA SAS Usage Problem
––.P–.I–.T–.Q–	marz	TES–ENH–301	00/12/21	new default values for different task
––.P–.I–.T–.Q–	froese	MDA–SPR–8669.3	00/12/20	MDBD Ownership concept must be revised
––.P–.I–.T–.Q–	schipper	CGSI–SPR–9057	00/12/20	$GSAF_HOME/cgs/util/saveCGSconf: MDB e
––.P–.I–.T–.Q–	werner	DBS–SPR–9007	00/12/20	Communication problems
––.P–.I–.T–.Q–	froese	MDA–SPR–9049.1	00/12/20	Inserting CDU in CCU does no longer wo
––.P–.I–.T–.Q–	marz	TES–SPR–9069	00/12/19	Exception: ACCESS_DENIED raised in SW
––.P–.I–.T–.Q–	athmann	CGS–SPR–9050	00/12/18	Consistency Checker Message: Out of ra
––.P–.I–.T–.Q–	athmann	CGS–ENH–80	00/12/15	Modified GRD_TO_OB_LIB acc. to SPR–871
––.P–.I–.T–.Q–	athmann	CGS–ENH–79	00/12/15	CGS 4.4.0 Documents
––.P–.I–.T–.Q–	adt_3	HCI–SPR–8871	00/12/14	All HCI windows disappear (Xview exit)
––.P–.I–.T–.Q–	ilenz	MDA–SPR–8669.1	00/12/11	MDBD Ownership concept must be revised
––.P–.I–.T–.Q–	danne	HCI–ENH–207	00/12/11	Merged with Issue HCI–SPR–8981 from cg
––.P–.I–.T–.Q–	ilenz	MDA–SPR–8693.3	00/12/11	System tree upgrade may cause CCU impo
––.P–.I–.T–.Q–	halwick	TEV–SPR–8949	00/12/11	TEV: Statistics Generation fails when
––.P–.I–.T–.Q–	froese	MDA–SPR–7285	00/12/08	I_MDB: ASV copies all CCU names
––.P–.I–.T–.Q–	andreas	CSS–SPR–8768.2	00/12/07	Non–deterministic calculations in CSS
––.P–.I–.T–.Q–	schipper	CGSI–SPR–9009	00/12/06	Wrong temporary tablespace for CGS use
––.P–.I–.T–.Q–	halwick	TEV–SPR–8974.1	00/12/06	TEV: Tool Crash in Raw Data Dump
––.P–.I–.T–.Q–	halwick	TEV–SPR–8990	00/12/06	No busy indication when interrupted
––.P–.I–.T–.Q–	schipper	CGSI–IRN–8122	00/12/06	New SWES_HOME
––.P–.I–.T–.Q–	adt_3	HCI–ENH–206	00/12/06	Canvas Size and File Chooser
––.P–.I–.T–.Q–	halwick	TEV–SPR–8974	00/12/05	TEV: Tool Crash in Raw Data Dump
––.P–.I–.T–.Q–	franz	CLS–ENH–177	00/12/04	New tool ’format’
––.P–.I–.T–.Q–	halwick	TEV–SPR–8935.1	00/12/04	Waste of disk space
––.P–.I–.T–.Q–	schipper	CGSI–ENH–436	00/12/04	SDDF/SWES directory change
––.P–.I–.T–.Q–	werner	DBS–ENH–84	00/12/04	Comments w.r.t. virtual MO in fa_sas_c
––.P–.I–.T–.Q–	halwick	TEV–SPR–8935	00/12/04	Waste of disk space
––.P–.I–.T–.Q–	adt_2	CLS–SPR–8773.1	00/12/04	CGS/CLS: UCL compiler refuses conversi
––.P–.I–.T–.Q–	schipper	CGSI–SPR–7131	00/12/01	CGS CMAS installation destroys project
––.P–.I–.T–.Q–	schipper	CGSI–SPR–8727.1	00/12/01	Problem with /testnode directories aft
––.P–.I–.T–.Q–	danne	HCI–ENH–204	00/12/01	SPR–7800 needs more memory
––.P–.I–.T–.Q–	marz	TES–SPR–7901	00/12/01	End Item Monitoring – missing limit–ba
––.P–.I–.T–.Q–	werner	DBS–ENH–82	00/12/01	Compilation errors in DBS debug versio
––.P–.I–.T–.Q–	werner	DBS–SPR–8925	00/12/01	Data not online reported when requesti

——.P–.I–.T–.Q– svogel CLS–ENH–176 00/11/30 directory
——.P–.I–.T–.Q– ilenz MDA–SPR–7809.1 00/11/30 Batch UCL compilation not really in ba
——.P–.I–.T–.Q– froese MDA–SPR–8944.1 00/11/28 Wrong MDA error meassge
——.P–.I–.T–.Q– ilenz MDA–SPR–8940.1 00/11/28 I_MDB crashes during data entry
——.P–.I–.T–.Q– adt_2 CLS–SPR–8917 00/11/27 FWDU Command Table Definition changes
——.P–.I–.T–.Q– froese MDA–SPR–7456.1 00/11/27 List of Units not ordered alphabeticly
——.P–.I–.T–.Q– adt_2 CLS–SPR–8946 00/11/27 Error in CLS_TYPES: Uninitialized valu
——.P–.I–.T–.Q– adt_3 HCI–SPR–8894 00/11/27 No selection of virtual nodes possible
——.P–.I–.T–.Q– adt_2 CLS–SPR–8930 00/11/23 I–Code restriction (jump too long)
——.P–.I–.T–.Q– adt_2 CLS–SPR–8773 00/11/23 CGS/CLS: UCL compiler refuses conversi
——.P–.I–.T–.Q– ilenz MDA–ENH–7664.1 00/11/23 CC: Performance optimization of proced
——.P–.I–.T–.Q– adt_3 HCI–SPR–8895 00/11/23 Not all selected items visible in moni
——.P–.I–.T–.Q– froese MDA–SPR–7918.3 00/11/23 Data lost in MDA/DDED
——.P–.I–.T–.Q– froese MDA–SPR–7918.1 00/11/22 Data lost in MDA/DDED
——.P–.I–.T–.Q– adt_2 CLS–SPR–7179 00/11/22 CLS Editor CCU/CDU scope not visible t
——.P–.I–.T–.Q– adt_2 CLS–SPR–8916 00/11/21 UCL: Wrong code for CASE statement wit
——.P–.I–.T–.Q– adt_2 CLS–SPR–6173 00/11/21 CPL Compiler Problem
——.P–.I–.T–.Q– adt_2 CLS–SPR–8653 00/11/21 HLCL Interpreter internal (CONSTRAINT–
——.P–.I–.T–.Q– adt_3 HCI–SPR–8896 00/11/21 Properties window not actualised
——.P–.I–.T–.Q– bade NWSW–ENH–46 00/11/21 Added APPL debug option; Added setting
——.P–.I–.T–.Q– adt_3 HCI–SPR–8909 00/11/20 GO/NOGO window lets HCI crash
——.P–.I–.T–.Q– ilenz MDA–SPR–8826.2 00/11/17 BDE out core dump
——.P–.I–.T–.Q– adt_2 CLS–SPR–6411 00/11/17 incorrect system library call with ope
——.P–.I–.T–.Q– adt_2 CLS–SPR–5423 00/11/16 'set of statecode' types not supported
——.P–.I–.T–.Q– marz TES–SPR–8868 00/11/15 closing archive file does not work
——.P–.I–.T–.Q– froese MDA–SPR–8872.1 00/11/14 DDED: API_SET_STATUS_ERROR
——.P–.I–.T–.Q– halwick TEV–ENH–63 00/11/14 No SCCSID tag in version.
——.P–.I–.T–.Q– athmann CGS–ENH–77 00/11/13 Add Documentation to CLS Add–On–Tools
——.P–.I–.T–.Q– athmann CGS–ENH–76 00/11/10 HOWTO for Add on Tools
——.P–.I–.T–.Q– froese MDA–SPR–6038.2 00/11/10 Danger limits row not deleted after in
——.P–.I–.T–.Q– athmann CGS–ENH–75 00/11/09 Installation scripts for CGS Add On To
——.P–.I–.T–.Q– franz CLS–ENH–174 00/11/09 mda/mdb_sim + mda/file_io: Deleted old
——.P–.I–.T–.Q– froese MDA–SPR–7085.1 00/11/09 Upper/Lower case state codes
——.P–.I–.T–.Q– danne HCI–SPR–8816.1 00/11/09 Raw data dump window
——.P–.I–.T–.Q– froese MDA–SPR–7239.4 00/11/08 Scroll–bar not shown in multi–record a
——.P–.I–.T–.Q– adt_2 CLS–SPR–5458 00/11/08 CLS: code generation for statecode typ
——.P–.I–.T–.Q– froese MDA–SPR–7239.2 00/11/08 Scroll–bar not shown in multi–record a
——.P–.I–.T–.Q– athmann CGS–ENH–74 00/11/08 Add CGS–Add–on–Tools to cgs/tools (IDE
——.P–.I–.T–.Q– froese MDA–SPR–8578.1 00/11/03 I_MDB abort during "Maintain Ref" of a
——.P–.I–.T–.Q– froese MDA–SPR–8838.2 00/11/03 MDA/I_MDB–>Open does not support the v
——.P–.I–.T–.Q– edvin CLS–ENH–172 00/11/03 Tools update
——.P–.I–.T–.Q– ilenz MDA–SPR–8838.3 00/11/02 MDA/I_MDB–>Open does not support the v
——.P–.I–.T–.Q– werner CSS–ENH–116 00/11/01 Enhancement Crew Trainer, CMAS adaptat
——.P–.I–.T–.Q– werner CSS–ENH–114.1 00/11/01 Enhancement Crew Trainer, kernel part
——.P–.I–.T–.Q– froese MDA–SPR–8837.1 00/10/31 MDA/DDED: ORACLE error occurs when exe
——.P–.I–.T–.Q– danne HCI–SPR–8752.1 00/10/30 Synoptic Picture is not resized after
——.P–.I–.T–.Q– franz CLS–ENH–171 00/10/30 Tools correction.
——.P–.I–.T–.Q– froese MDA–SPR–7943.1 00/10/30 MDA/I_MDB:update of user tree nodes pr
——.P–.I–.T–.Q– svogel CLS–ENH–170 00/10/27 mdb
——.P–.I–.T–.Q– grotheer SWES–ENH–8 00/10/27 no SDE please
——.P–.I–.T–.Q– werner CSS–ENH–114 00/10/26 Enhancement Crew Trainer, kernel part
——.P–.I–.T–.Q– adt_2 CLS–SPR–8736 00/10/26 Error in CLS_EXPRESSION_PARSER: Uninit
——.P–.I–.T–.Q– volker CSS–ENH–113 00/10/25 Crew Trainer Enhancements 1
——.P–.I–.T–.Q– adt_2 CLS–SPR–8772 00/10/24 CGS/CLS: Conversion raises CONVERSION_
——.P–.I–.T–.Q– adt_2 CLS–SPR–8771 00/10/24 CGS/CLS: Missing check vor subrange co
——.P–.I–.T–.Q– froese MDA–SPR–8797.1 00/10/24 Updates on frozen CCUs/CDUs possible

——.P–.I–.T–.Q– adt_2 CLS–SPR–8793 00/10/23 CLS Compiler generates Internal Error
——.P–.I–.T–.Q– franz CLS–ENH–169 00/10/23 Tools update
——.P–.I–.T–.Q– franz CLS–ENH–168 00/10/18 Correction.
——.P–.I–.T–.Q– svogel CLS–ENH–167 00/10/18 cycle_check
——.P–.I–.T–.Q– halwick TEV–ENH–60 00/10/18 New task size variables.
——.P–.I–.T–.Q– adt_3 TSCV–SPR–6044 00/10/18 Fin. Arch. SAS does not work automatic
——.P–.I–.T–.Q– schipper CGSI–ENH–394 00/10/17 no SCCS ID for motd
——.P–.I–.T–.Q– adt_3 HCI–ENH–192 00/10/17 CGS 4.4 Monitoring/Gonogo Window
——.P–.I–.T–.Q– danne HCI–ENH–191 00/10/16 Data_Distributor: new check in Modify_
——.P–.I–.T–.Q– adt_3 HCI–ENH–190 00/10/12 CGS 4.4 Monitoring/Gonogo Window
——.P–.I–.T–.Q– ilenz MDA–SPR–6385.1 00/10/12 Provide CCU Freeze and unfreeze functi
——.P–.I–.T–.Q– ilenz MDA–SPR–8762 00/10/12 Derived Parameter
——.P–.I–.T–.Q– svogel CLS–ENH–166 00/10/11 acquisition_status
——.P–.I–.T–.Q– adt_3 HCI–ENH–189 00/10/11 CGS 4.4 Monitoring/Gonogo Window
——.P–.I–.T–.Q– halwick TEV–ENH–58 00/10/11 Allow empty list of selected ADUs and
——.P–.I–.T–.Q– adt_3 HCI–ENH–188 00/10/09 CGS 4.4 monitoring/gonogo window
——.P–.I–.T–.Q– ilenz MDA–SPR–8720 00/10/06 Onboard Flag not stored for EVENT_MESS
——.P–.I–.T–.Q– danne HCI–ENH–187 00/10/06 HCI Version Number
——.P–.I–.T–.Q– halwick TEV–SPR–7478.5 00/10/05 TEV – EVENT TOOL inefficient
——.P–.I–.T–.Q– halwick TEV–SPR–7478.4 00/10/04 TEV – EVENT TOOL inefficient
——.P–.I–.T–.Q– froese MDA–SPR–8692.1 00/10/04 MDA: Copy Problem with USER_DEF_SIDS a
——.P–.I–.T–.Q– franz CLS–ENH–164 00/10/04 Tools correction.
——.P–.I–.T–.Q– danne HCI–ENH–186 00/09/29 Bug fixes for data distribution.
——.P–.I–.T–.Q– adt_3 HCI–ENH–185 00/09/29 CGS 4.4 Monitoring/Gonogo Window
——.P–.I–.T–.Q– marz TES–ENH–292 00/09/29 new TES error messages in CGS 4.4
——.P–.I–.T–.Q– marz TES–IRN–8118 00/09/29 Add new HK value for system wide syncr
——.P–.I–.T–.Q– bade TSS–ENH–36.1 00/09/29 Restore state NOT_SMT_MASTER if TSP wa
——.P–.I–.T–.Q– adt_2 CLS–SPR–8303 00/09/28 CMU1 – CMU4 Reset FLAP checks wrong st
——.P–.I–.T–.Q– ilenz MDA–SPR–7920.3 00/09/28 DDED leaves hidden data
——.P–.I–.T–.Q– danne HCI–ENH–184 00/09/28 Additional checks in Dynamic_DDS.
——.P–.I–.T–.Q– froese MDA–ENH–8596 00/09/28 Merge: MDA–SPR–8596, CGS–4.3 to CGS–4.
——.P–.I–.T–.Q– bade TSS–ENH–36 00/09/28 Add–on to TSS–SPR–8326
——.P–.I–.T–.Q– ilenz MDA–SPR–8596.2 00/09/28 CCU references on same System Tree Nod
——.P–.I–.T–.Q– adt_3 TSCV–SPR–8476 00/09/28 TSCV crashes during deletion of test s
——.P–.I–.T–.Q– froese MDA–ENH–7920 00/09/28 Merge: MDA–SPR–7920, CGS–4.3 to CGS–4.
——.P–.I–.T–.Q– andreas CSS–SPR–8717 00/09/27 Packing of model aborted with ORACLE E
——.P–.I–.T–.Q– danne HCI–ENH–183 00/09/27 Made processing status flag in SD conf
——.P–.I–.T–.Q– adt_3 HCI–ENH–182 00/09/27 CGS 4.4 Monitoring/Gonogo Window
——.P–.I–.T–.Q– marz TES–ENH–291 00/09/27 correct REMOVE_ITEM for dynamic_reques
——.P–.I–.T–.Q– schipper CGSI–SPR–7920 00/09/27 DDED leaves hidden data
——.P–.I–.T–.Q– bade TSS–SPR–8326.1 00/09/27 Enh: system–wide NTP synchronisation s
——.P–.I–.T–.Q– danne HCI–ENH–181 00/09/26 Added Dynamic_DDS.Acquisition_Time (IR
——.P–.I–.T–.Q– bade TSS–SPR–8326 00/09/26 Enh: system–wide NTP synchronisation s
——.P–.I–.T–.Q– athmann CLS–ENH–162 00/09/25 Startup script for CLS Add–on tools
——.P–.I–.T–.Q– athmann CGS–ENH–71 00/09/25 CGS Tools: Installation scripts
——.P–.I–.T–.Q– marz TES–IRN–8105 00/09/25 new START_SMT_WITH_OFFSET ground_lib–p
——.P–.I–.T–.Q– werner DBS–SPR–6912 00/09/25 Missing information in FA device manag
——.P–.I–.T–.Q– danne CGSI–ENH–345 00/09/22 Bug fix for X_CMS.ColorIndexTable.
——.P–.I–.T–.Q– svogel CLS–ENH–161 00/09/22 onboard library
——.P–.I–.T–.Q– athmann CGS–IRN–8105.1 00/09/22 UCL Ground_Library updates IRN–8105 Is
——.P–.I–.T–.Q– danne HCI–ENH–180 00/09/22 Bug fix for –login_sequence parameter.
——.P–.I–.T–.Q– schipper CGSI–ENH–344 00/09/22 Company Astrium
——.P–.I–.T–.Q– werner DBS–SPR–5465 00/09/22 Final Archiving (FA) – list window not
——.P–.I–.T–.Q– danne HCI–ENH–179 00/09/21 Bug fix for HCI Application parameter
——.P–.I–.T–.Q– werner DBS–SPR–6496 00/09/21 FA SAS crashed – if not EVALUATION on
——.P–.I–.T–.Q– danne HCI–ENH–178 00/09/20 Astrium logo

——.P–.I–.T–.Q– werner DBS–SPR–7337 00/09/20 manual archiving failed
——.P–.I–.T–.Q– werner DBS–SPR–7318 00/09/19 TEV import tool is not able to import
——.P–.I–.T–.Q– ilenz MDA–IRN–8107.8 00/09/19 MDB: Extensions for CGS_4.4.0
——.P–.I–.T–.Q– marz TES–IRN–8096.2 00/09/18 correct parameter profile for ACKNOWLE
——.P–.I–.T–.Q– danne HCI–ENH–177 00/09/15 Start HCI applications via HLCL.
——.P–.I–.T–.Q– marz TES–ENH–290 00/09/15 correct prompt operation for passwd
——.P–.I–.T–.Q– danne HCI–ENH–176 00/09/15 HCI_RPI: Bug fix in Get_Prompt_Result
——.P–.I–.T–.Q– adt_3 HCI–ENH–175 00/09/15 Monitoring / GoNogo Window
——.P–.I–.T–.Q– adt_2 CLS–SPR–8651 00/09/15 UCL Make Problem: Alias References not
——.P–.I–.T–.Q– svogel CLS–ENH–160 00/09/15 check_und_css_kernel_if
——.P–.I–.T–.Q– werner DBS–ENH–76 00/09/15 Virtual MO device for FA SAS
——.P–.I–.T–.Q– marz TES–IRN–8096.1 00/09/15 new TES_API ACKNOWLEDGE_COMMAND
——.P–.I–.T–.Q– marz TES–ENH–289 00/09/15 new TES_API ACKNOWLEDGE_CODE procedure
——.P–.I–.T–.Q– danne HCI–ENH–174 00/09/14 Window options for display_picture/rea
——.P–.I–.T–.Q– andreas CSS–SPR–6622.1 00/09/14 Function blocks which are e.g. copied
——.P–.I–.T–.Q– adt_3 HCI–ENH–173 00/09/14 CGS 4.4 Metop improvement
——.P–.I–.T–.Q– volker CSS–SPR–8000 00/09/14 No snapshot during model execution
——.P–.I–.T–.Q– werner DBS–SPR–6044 00/09/14 Fin. Arch. SAS does not work automatic
——.P–.I–.T–.Q– andreas CSS–SPR–7219 00/09/13 CSS: Problems with References
——.P–.I–.T–.Q– werner DBS–IRN–8116.1 00/09/13 DBS–IRN–8116: DBS_RPI: batch_mode para
——.P–.I–.T–.Q– franz CLS–ENH–159 00/09/13 Tools reorganization.
——.P–.I–.T–.Q– ilenz MDA–ENH–4408 00/09/13 create tables for the new consistency
——.P–.I–.T–.Q– halwick TEV–SPR–7478.3 00/09/13 TEV – EVENT TOOL inefficient
——.P–.I–.T–.Q– ilenz MDA–ENH–4407 00/09/13 create tables for the new consistency
——.P–.I–.T–.Q– halwick TEV–ENH–57 00/09/13 Handle FILE_SYSTEM_FULL from GET_RAW_D
——.P–.I–.T–.Q– franz CLS–ENH–158 00/09/12 Tools reorganization
——.P–.I–.T–.Q– hartmann TES–ENH–288 00/09/11 correct julian date of 1.1.1970
——.P–.I–.T–.Q– marz TES–ENH–287 00/09/11 correct read_message/number_from_user
——.P–.I–.T–.Q– werner DBS–ENH–75 00/09/11 preinstall_dbs – copy dbs_mount
——.P–.I–.T–.Q– andreas CSS–SPR–8010 00/09/08 CSS Database Browser hangs
——.P–.I–.T–.Q– andreas CSS–ENH–111 00/09/08 pass NAME_ERROR from open_mapping_file
——.P–.I–.T–.Q– franz CLS–ENH–157 00/09/08 Supplement to CLS–SPR–7560
——.P–.I–.T–.Q– adt_3 HCI–ENH–172 00/09/08 CGS 4.4 Metop improvement
——.P–.I–.T–.Q– marz TES–ENH–286 00/09/08 TC_VERIFICATION_DISABLED by CONFIG_FIL
——.P–.I–.T–.Q– danne HCI–ENH–171 00/09/08 TC Authorization
——.P–.I–.T–.Q– franz CLS–SPR–7560 00/09/07 CLS Tools not official
——.P–.I–.T–.Q– werner DBS–IRN–8116 00/09/07 DBS_RPI: batch_mode parameter for INIT
——.P–.I–.T–.Q– froese MDA–SPR–8621 00/09/07 IMDB: Interface error C –> ADA
——.P–.I–.T–.Q– marz TES–ENH–284 00/09/07 correct function REMOVE_ASCII_NUL
——.P–.I–.T–.Q– athmann CGS–ENH–70 00/09/06 FILE_IO_LIB: Remove trace / correct
——.P–.I–.T–.Q– volker GWDU–ENH–16 00/09/06 GWDU adaptation to new database views
——.P–.I–.T–.Q– halwick TEV–ENH–56 00/09/06 Update version number.
——.P–.I–.T–.Q– grotheer SWES–IRN–8100.3 00/09/06 comment in for statement removed
——.P–.I–.T–.Q– bade NWSW–ENH–43 00/09/05 removed NWSW outsputs in case of deliv
——.P–.I–.T–.Q– athmann CGS–ENH–69 00/09/05 Extend FILE_IO_LIB with ADD_TO_TEST_SE
——.P–.I–.T–.Q– ilenz MDA–IRN–8100.7 00/09/05 SWEU/SWRU load interface
——.P–.I–.T–.Q– bade TSS–ENH–35 00/09/05 Adjusted scripts outputs
——.P–.I–.T–.Q– ilenz MDA–ENH–4406 00/09/04 create tables for the new consistency
——.P–.I–.T–.Q– werner DBS–SPR–8342 00/09/04 DBS_INTERNAL_PROBLEM when DISK FULL
——.P–.I–.T–.Q– hartmann TES–ENH–283 00/09/04 correction for dynamic dispatch
——.P–.I–.T–.Q– werner DBS–SPR–8442 00/09/04 Final archive device size calculation
——.P–.I–.T–.Q– danne HCI–ENH–170 00/09/04 Implementation of Status/Dynamic data
——.P–.I–.T–.Q– danne HCI–IRN–8111.2 00/09/04 HCI_RPI and Status/Dynamic Data Dispat
——.P–.I–.T–.Q– froese MDA–SPR–8582 00/09/01 Multiple CCU selection
——.P–.I–.T–.Q– froese MDA–ENH–4405 00/09/01 IMDB: Merge from CGS 4.3 to CGS 4.4, I
——.P–.I–.T–.Q– ilenz MDA–IRN–8100.4 00/09/01 SWEU/SWRU load interface

——.P–.I–.T–.Q– ilenz MDA–ENH–4404 00/08/31 correction of PLAIN_STRINGS.GET_SLICES
——.P–.I–.T–.Q– werner DBS–SPR–7800.1 00/08/30 Communication with test node fails dur
——.P–.I–.T–.Q– hartmann TES–SPR–7416 00/08/30 Load Scoe Error: VALUE_OUT_OF_RANGE in
——.P–.I–.T–.Q– werner DBS–SPR–8511 00/08/30 DBS recovery scripts delete archive fi
——.P–.I–.T–.Q– adt_3 HCI–ENH–169 00/08/29 CGS 4.4 Metop improvement
——.P–.I–.T–.Q– halwick TEV–ENH–53 00/08/29 Change text field label for : Second s
——.P–.I–.T–.Q– ilenz MDA–IRN–8100.3 00/08/29 SWEU/SWRU load interface
——.P–.I–.T–.Q– froese MDA–SPR–7573 00/08/29 MDB pathname/SID does not work
——.P–.I–.T–.Q– ilenz MDA–IRN–8100.2 00/08/29 SWEU/SWRU load interface
——.P–.I–.T–.Q– froese MDA–SPR–7939.1 00/08/29 MDA:Case sensitive I_MDB ”Create Node”
——.P–.I–.T–.Q– ilenz MDA–IRN–8107.6 00/08/28 MDB: Extensions for CGS_4.4.0
——.P–.I–.T–.Q– schipper CGSI–ENH–308 00/08/28 Version for GSAF installation.
——.P–.I–.T–.Q– werner DBS–SPR–7800 00/08/25 Communication with test node fails dur
——.P–.I–.T–.Q– grotheer MDA–ENH–8216 00/08/25 function ITEM_DESCRIPTION added
——.P–.I–.T–.Q– hartmann TES–SPR–7800.1 00/08/25 Communication with test node fails dur
——.P–.I–.T–.Q– schipper CGSI–ENH–305 00/08/24 set_cgs_version generates source with
——.P–.I–.T–.Q– schipper CGSI–ENH–304 00/08/24 Set CGS version to 4.4.0
——.P–.I–.T–.Q– athmann CGS–IRN–8105 00/08/24 New Ground Library for 4.4.0 acc. to I
——.P–.I–.T–.Q– hartmann TES–ENH–282 00/08/24 dispatch expexted state
——.P–.I–.T–.Q– hartmann TES–ENH–281 00/08/24 cleanup
——.P–.I–.T–.Q– froese MDA–SPR–8557 00/08/24 ASV: Error with different system tree
——.P–.I–.T–.Q– danne TSCV–ENH–58 00/08/24 TSCV Version Number
——.P–.I–.T–.Q– hartmann TES–ENH–280 00/08/22 implement new status and dynamic dds
——.P–.I–.T–.Q– halwick TEV–SPR–7870.1 00/08/22 Wrong activity status
——.P–.I–.T–.Q– hartmann TES–ENH–279 00/08/22 adaptation to new HCI_RPI
——.P–.I–.T–.Q– halwick TEV–SPR–8475.1 00/08/22 Online session data can not be deleted
——.P–.I–.T–.Q– halwick TEV–ENH–52.1 00/08/22 Correct header in events listing.
——.P–.I–.T–.Q– danne HCI–IRN–8111.1 00/08/21 HCI_RPI and Status/Dynamic Data Dispat
——.P–.I–.T–.Q– halwick TEV–SPR–5492 00/08/21 bad format for long pathnames in RAW D
——.P–.I–.T–.Q– athmann MDA–SPR–8524 00/08/18 CHECK_MDB_ITEM: Range check failure in
——.P–.I–.T–.Q– athmann MDA–ENH–8215 00/08/18 Align body of EGSE_FILE_IO package wit
——.P–.I–.T–.Q– froese MDA–SPR–8539 00/08/18 I_MDB: Switch CDU Version within activ
——.P–.I–.T–.Q– froese MDA–SPR–8526 00/08/18 MDA ”add system tree version” does not
——.P–.I–.T–.Q– marz TES–IRN–8110 00/08/16 Critical command authorization
——.P–.I–.T–.Q– schipper CGSI–ENH–298 00/08/16 SPR–6913
——.P–.I–.T–.Q– halwick TEV–ENH–52 00/08/15 Correct header in events listing.
——.P–.I–.T–.Q– halwick TEV–SPR–7870 00/08/15 Wrong activity status
——.P–.I–.T–.Q– halwick TEV–SPR–7841.1 00/08/14 Check OK – but M_8 doesn’t belong to a
——.P–.I–.T–.Q– halwick TEV–SPR–7871 00/08/14 Could not move files if filename is to
——.P–.I–.T–.Q– marz TES–ENH–278 00/08/14 CGS 4.4 function – partly solved only
——.P–.I–.T–.Q– hartmann TES–ENH–277 00/08/14 list of messages update
——.P–.I–.T–.Q– froese MDA–SPR–8449 00/08/11 I_MDB: Missing error message
——.P–.I–.T–.Q– froese MDA–SPR–8455 00/08/09 I_MDB: Message in the window footer no
——.P–.I–.T–.Q– halwick TEV–SPR–7841 00/08/09 Check OK – but M_8 doesn’t belong to a
——.P–.I–.T–.Q– halwick TEV–SPR–8035 00/08/09 TEV: Event_Logging, User_Event Field n
——.P–.I–.T–.Q– adt_2 CLS–ENH–156 00/08/08 Prefix command with execution time in
——.P–.I–.T–.Q– adt_2 CLS–SPR–7340 00/08/04 CGS/CLS: UCL compiler allows ground im
——.P–.I–.T–.Q– ilenz MDA–IRN–8107.5 00/08/04 MDB: Extensions for CGS_4.4.0
——.P–.I–.T–.Q– ilenz MDA–IRN–8107.4 00/08/03 MDB: Extensions for CGS_4.4.0
——.P–.I–.T–.Q– froese MDA–ENH–4403 00/08/03 IMDB: Merge SPR–8438 from CGS4.3 to CG
——.P–.I–.T–.Q– froese MDA–ENH–4402 00/08/03 IMDB: Merge SPR–8392 from CGS4.3 to CG
——.P–.I–.T–.Q– froese MDA–ENH–4401 00/08/03 DDED: Merge SPR–7862 from CGS4.3 to CG
——.P–.I–.T–.Q– andreas CSS–SPR–8391 00/08/02 css_db_server crash resp. hang up
——.P–.I–.T–.Q– adt_2 CLS–SPR–8220 00/08/02 Array definition with units not compil
——.P–.I–.T–.Q– adt_2 CLS–SPR–7736 00/08/02 CLS Editor reports: Undefined paramete
——.P–.I–.T–.Q– adt_2 CLS–SPR–7627 00/08/02 CLS Internal Error for Word parameter

——.P–.I–.T–.Q– marz TES–IRN–8112.1 00/08/02 NEW DDS
——.P–.I–.T–.Q– froese MDA–SPR–6217 00/08/02 DDED:different behaviour after <Return
——.P–.I–.T–.Q– andreas CSS–ENH–110 00/08/01 fixed onboard mdb item types in db ser
——.P–.I–.T–.Q– andreas CSS–SPR–8302 00/08/01 SIMM delivered with MDBD 4.4.1 is unus
——.P–.I–.T–.Q– marz TES–IRN–8112 00/08/01 NEW DDS
——.P–.I–.T–.Q– andreas CSS–ENH–109 00/08/01 added SCCS IDs to CSS source files
——.P–.I–.T–.Q– ilenz MDA–IRN–8107.3 00/08/01 MDB: Extensions for CGS_4.4.0
——.P–.I–.T–.Q– ilenz MDA–IRN–8107.2 00/08/01 MDB: Extensions for CGS_4.4.0
——.P–.I–.T–.Q– andreas CSS–IRN–8109 00/08/01 CGS_4.4.0 Extend Discrete Calibration
——.P–.I–.T–.Q– danne HCI–IRN–8111 00/08/01 HCI_RPI and Static/Dynamic Data Dispat
——.P–.I–.T–.Q– ilenz MDA–IRN–8107.1 00/07/31 MDB: Extensions for CGS_4.4.0
——.P–.I–.T–.Q– froese MDA–ENH–4400 00/07/28 IMDB: Merge from CGS 4.3 to CGS 4.4
——.P–.I–.T–.Q– marz TES–SPR–7788 00/07/28 Monitoring AP: Output to all Message–S
——.P–.I–.T–.Q– marz TES–IRN–8109 00/07/27 calibration
——.P–.I–.T–.Q– halwick TEV–SPR–7478.2 00/07/26 TEV – EVENT TOOL inefficient
——.P–.I–.T–.Q– ilenz MDA–IRN–8107 00/07/26 MDB: Extensions for CGS_4.4.0
——.P–.I–.T–.Q– marz TES–ENH–275 00/07/25 IS_EQUAL function added
——.P–.I–.T–.Q– marz TES–ENH–274 00/07/25 IRN–8110
——.P–.I–.T–.Q– marz TES–SPR–7643 00/07/25 Timestamps in Message–Handler corrupte
——.P–.I–.T–.Q– halwick TEV–SPR–7417 00/07/24 TEV can’t handle large files
——.P–.I–.T–.Q– halwick TEV–SPR–5424 00/07/24 Deletion and Recreation of archived te
——.P–.I–.T–.Q– halwick TEV–SPR–8124 00/07/24 TEV Test Session Export to FA
——.P–.I–.T–.Q– marz TES–ENH–273 00/07/21 TES–SPR–8288
——.P–.I–.T–.Q– schipper CGSI–SPR–8135 00/07/20 User login script not executed in case
——.P–.I–.T–.Q– pdbcgs CGS–ENH–66 00/07/14 creation of new source container
——.P–.I–.T–.Q– schipper CGSI–SPR–8241 00/07/04 CGSI cshrc blows up PATH environment v

3 Documents

3.1 Installation Manuals

COL–RIBRE–MA–0025: CGS Installation Manual, Issue 4/G, 15.01.2001

3.2 User Manuals

COL–RIBRE–MA–0028:	CGS User Manual, Issue 2/L, 31.11.2000
COL–RIBRE–MA–0030–00	MDA Introduction Manual, Issue 3/B 4.4.1997
COL–RIBRE–MA–0031–00	MDA Reference Manual, Issue 4/C 31.03.2000
COL–RIBRE–MA–0018–00	MDA Administration Manual, Issue 4/B 31.03.2000
COL–RIBRE–MA–0037–00	DADIMA Introduction Manual, Issue 3/– 4.4.1997
COL–RIBRE–MA–0032–00	DADIMA Reference Manual, Issue 4/– 1.9.1997
COL–RIBRE–MA–0036–00	DADIMA Administration Manual, Issue 4/– 1.9.1997
COL–RIBRE–MA–0032–00	SID Range Tool Users and Operations Manual, Issue 1/– 15.09.1997
UM–114–001–ROV	GWDU User's Manual and Operations Manual, Issue 1.4 , 1999
UM–114–002–ROV	FWDU User's Manual Manual, Issue 2.1 ,1999

3.3 Reference Manuals

COL–RIBRE–STD–0010	User Control Language (UCL) Reference Manual, Issue 4/–, 13.03.1998
COL–RIBRE–STD–0009	High Level Command Language (HLCL) Reference Manual, Issue 2/A, 13.03.1998
COL–RIBRE–STD–0008	Reference Manual for Crew Procedure Language and Software, Commanding, Issue 1/E, 1998

3.4 Requirements Specifications

COL–RIBRE–SPE–0032	Columbus Ground System (CGS) Requirements Specification, Issue 6/C, 31.3.1999

3.5 Design Documentation

COL–RIBRE–ADD–0006	Columbus Ground System (CGS) Software Architectural Design Document, Issue 4/B, 30.10.1998

3.6 Interface Definitions

COL–RIBRE–ICD–0069–00 MDB Standard Entities and Application Program Interface, Issue 4/B, 31.08.2000

+ IRNs

COL–RIBRE–IRN–CGS–8068 Issue 1/B	Commercial Baseline Update:VADS 6.2.3.d
COL–RIBRE–IRN–CGS–8096 Issue 1/B	TES_API: Add overlayed acknowledge procedure
COL–RIBRE–IRN–CGS–8100 Issue 1/C	SWEU/SWRU Load Interface
COL–RIBRE–IRN–CGS–8105 Issue 1/A	UCL System Library Extensions/Updates
COL–RIBRE–IRN–CGS–8109 Issue 1/–	CALIBRATION:discrete ranges/256 statecodes
COL–RIBRE–IRN–CGS–8110 Issue 1/–	ADT_GDU_DESCR: critical command

COL–RIBRE–ICD–0025–00 System to CGS ICD, 4/B, 31.08.2000

+ IRNs:

COL–RIBRE–IRN–CGS–8107 Issue 1/A MDB Extensions for CGS 4.4.0

4 Installation of the CGS Delivery

4.1 Installation

The installation is to be performed for a full CGS system installation, see CGS Installation Manual

5 Post Installation Steps

5.1 MDB Updates

Refer to CGS Installation Manual

5.2 Install New UCL Libraries / Recompile APs

5.2.1 UCL System Libraries

The **GROUND_LIBRARY** has been updated in this delivery (refer to COL–RIBRE–IRN–8068). The source code of the library is delivered as UNIX file under $CGS_HOME/config. It has to be replaced in the MDB at all locations, where the onboard library exists. Subsequent compilation of all libraries/APs referencing the library is needed.

The following operations are new:

- SET_CCSDS_APID
- SET_DEFAULT_WORKSTATION
- START_SMT_WITH_OFFSET

The following operations have **changed parameter profile**:

- WRITE_MESSAGE_TO_USER
- READ_NUMBER_FROM_USER
- READ_MESSAGE_FROM_USER
- DISPLAY_PICTURE

The **FILE_IO_LIB** has been updated in this delivery. The source code of the library is delivered as UNIX file under $CGS_HOME/config. It has to be replaced in the MDB at all locations, where

the onboard library exists. Subsequent compilation of all libraries/APs referencing the library is needed.

A new operation has been added to the library:

- ADD_FILE_TO_TEST_SESSION

Library Replacement

The source code for the new library must be installed in the database (MDB) and replace any old version of the Library.

As the Library may exist in different locations in your database, it is necessary to search for all locations and replace it everywhere within the MDB. To achieve this, perform the following steps:

1. Start I_MDB Navigator (“Test Preparation” in CGS Task Selector).
2. For each element configuration the following steps shall be done:
3. For each system tree version the following steps shall be repeated as well:
4. In those cases where the Library is part of a frozen CDU, you will have to create a new CDU version first (otherwise the library would be read–only and thus could not be updated). Remember to specify the latest old version of the CDU in the “Copy from CDU Version” field of the “Create new CDU version” window.
5. In those cases where the library has not been frozen, simply replace the old source code by the new, as described below.
6. Navigate to the library end item. You may want to use the File→Direct End Item Access search facility of I_MDB to locate all libraries within a CDU automatically: Simply type UCL_SYSTEM_LIBRARY into the “End Item Type” field of the “Direct End Item Access” window and click on Search & Edit. The Items list in the lower half of the window then displays all UCL System Libraries in the currently open CDU.
7. Start the CLS Editor by using the “UCL Compiler & Editor...” menu point from the pop–up menu that is displayed after pressing the right mouse button on the library end item.
8. In the CLS Editor, delete the old source code: Click four times (fast) on the source code window pane. This should select the whole source code. (Alternatively: Select first part of source code, scroll to end of the source code and select all with right mouse button). Then press the Cut key or use Edit→Cut from the editor’s pop–up menu.
9. Insert the new source code via File→Include File... pop–up menu point: In the “Text:Include” window enter:

   ```
   Directory: $GSAF_HOME/cgs/config
        File: ground_Library_.ucl
       File: file_io_lib_.ucl
   ```

10. Now click on the “Include File” button. The new source code is then loaded into the CLS Editor. Then click on Command→Compile button.
11. For UCL User Library, switch to ’body’ and perform step 9 and 10 for the file

    ```
    Directory: $GSAF_HOME/cgs/config
         File: file_io_lib.ucl
    ```

12. After the compilation of the library is finished, click on the Command→Store button of the CLS Editor

13. Quit the CLS Editor.
14. In those cases where the library was part of a frozen CDU: All your CCUs that reference the old CDU need to be changed as well: They should now reference the newly created CDU instead of referencing the old obsolete one. Replace these references now using I_MDB. If the CCUs are frozen, you have to create new CCU versions first.
15. Re–compile all your APs that reference the new system libraries. If your APs are part of a frozen CDU, you will have to copy them into a new CDU version in advance. Otherwise you will not be able to store your recompiled code into the database.
16. Repeat the above steps for all system tree versions.
17. Repeat the above steps for all element configurations.
18. Exit I_MDB.
19. Logout.

Recompilation

As a minimum, all APs and Libraries referring to the a.m. updated libraries need to be recompiled.

However, it is recommended to recompile all APs and Libraries in forced mode. The reason is, that due to fix of SPR–7654 the CLS compiler now generates references for alias definition as well. To generate a consistent set of cross reference information for all UCL items, all items should be recompiled.

5.3 Generate SCOE Files

To activate changes in the generation of SCOE files recreate the SCOE files of all CCU with the MDB. Therefore perform following steps:

1. Start I_MDB Navigator (“Test Preparation” in CGS Task Selector).
2. For each element configuration the following steps shall be done:
3. For each system tree version the following steps shall be repeated as well:
4. select the CCU version and navigate to each enditem of type EGSE_TEST_CONFIGURATION. To simplify this work use the ”File”–>“Direct End Item Access” window, enter the enditem type EGSE_TEST_CONFIGURATION and press the ”Search&Edit” button. All enditem within this CCU of the given type will be listed in the lower part of the window.
5. select the enditems which are used to start the test configuration one by one and select from the pull down menu (with right mouse button) ”Tools”–>”Generate Scoe Files...”. The ”LoadSCOE” progress window will apear. Wait until the generation is finished, than press the ”Close” button.
6. Repeat the above steps, beginning with step 3 for all system tree versions.
7. Repeat the above steps, beginning with step 2 for all element configurations.
8. Exit I_MDB.

5.4 Recompile SAS

The CGS_API has been extended. Especially the underlying Communication Software has been modified. To ensure correct working of the SAS using the CGS_API, all SAS using the **TES_API are required to be recompiled** using the CGS_API delivered with this patch. Refer to CGS Installation Manual.

Also, some changes have been made to the **TEV_API.** Programs using the TEV_API might need recompilation.

After installation, the CGS_API library **for Sun** needs to be recompiled. For installation and recompilation procedure refer to CGS Installation Manual, Issue 4/F, ch. 7. Afterwards, the SAS can be recompiled.

6 Known Bugs and Workarounds

This chapter lists the major known bugs, limitations and problems in CGS_V4.4.1 It also supplies workarounds for most of the known problems.

6.1 List of open SPRs

(Refer to attachment 1)

6.2 Workarounds

[1] COL–RIBRE–SPR–3033
CGS: Oracle long raw retrieval problem

Description:

Oracle version: 7.3.2.1, Pro*Ada 1.8.2.0.0, Solaris 2.5

In case a record is retrieved from the database that contains a colmn of type 'long raw', the retrieve fails and know data is returns. This applies e.g. for i–code in the MDB.

The problem was isolated in a small test program and forwarded and reproduced by oracle. Oracle investigates if a patch is available.

Debug session at DASA found the problem in the oracle runtime library. The file sqatyb.ada has to be changed as follows:

change line 255:

from
return(oracle.to_c_pointer(hva));
to :
return(oracle.c_pointer_to(hv));

to fix the problem (temporary workaround).

Workaround:

Edited by: Paul Athmann

A patch has been developped at DASA (A.Schulz) to overcome the problem.
The patch is called "Varraw" and has been inserted into the PDB at DASA.

Steps to apply the patch:
———————————

1. Save old copy of sqatyb.ada

% cd $ORACLE_HOME/precomp/pubsrc/adalib
% cp –p sqatyb.ada sqatyb.ada_pre_varraw

2. Copy new sqatyb.ada to your adalib directory

% cp –p <patch_dir>/sqatyb.ada $ORACLE_HOME/precomp/pubsrc/adalib

3. Rebuild adalib

% cd $ORACLE_HOME/precomp/pubsrc/adalib
% make –f ins_precomp.mk clean
% make –f ins_precomp.mk compile

4. Relink your Ada application program(s) if you have any

[2] COL–RIBRE–SPR–4482
CGS: visible point in field name of Create user tree node

Description:

when entering a value in window Create user tree node in
field name a point at the beginning of the field
is visible.

Workaround

Edited by: Paul Athmann

A dot is sometimes displayed by XVIEWS at places, where it is not expected.

Dot is to be ignored.

[3] COL–RIBRE–SPR–6067
CGS: SWES precompilation syntax not documented.

Description:

There is no SDDF user documentation describing what functions are supported by the SWES precompiler tool and what are not supported.
It is not described neither in CGS nor in SDE user manuals.
Moreover, the syntax expected by the SWES precompiler to convert MDB pathnames in MDB SIDs or constants is not described too.

Workaround

Edited by: Luciano Rempicci

A technical note document from CRI (now TERMA) has been circulating containing some information about SWES precompilation. It is identified as ”CSD/PRJ/COL/SPEC/19” Issue 1.0 Date
July 21, 1995.
This document is not exhaustive for SDDF users, because for instance it misses the syntax to be used, and it isn’t an SDDF deliverable document.
Copy of this document may be informally sent upon request from users.

[4] COL–RIBRE–SPR–7066
CGS: Starting of HLCL windows cannot be prohibited to some users

Description:

In the Crew Trainer project (as in other projects), there are different types of users. Some of them are allowed to control the test unit, some may only observe the test progress. Up to now, there
seems to be no way in HCI to restrict the starting of HLCL command windows to a subset of the CGS users.

Workaround

Edited by: Paul Athmann

As described in CGS User Manual, section 7.1.2.2:

When setting privilege to IS_TEST_EVALUATOR (in USER_PROFILES), the user is prohibited from commanding the test nodes or setting S/W variables.

E.g. when trying to start an AP, Online Test Control (HCI) displays an error:

HLCL: \eureca\egse\subsystem\control\move_switches
Error in starting \EURECA\EGSE\SUBSYSTEM\CONTROL\MOVE_SWITCHES on node
\EURECA\EGSE\TOPOLOGY\CONFIGURATION\NODE_LIST\TEST_NODE_01:
Command rejected, permission denied!

The user is only able to execute local HLCL commands like printing a file, displaying a synoptic.

[5] COL–RIBRE–SPR–7678
CGS: max(real) out of bounds in cls_editor

Description:

The HLCL sequence:

sequence hlcl_sequ_in2 (in rea: real := max(real));
end hlcl_sequ_in2;

leads during the store operation (after successful compile) to an oracle error:
———————————————report from MDB_UCL———————————————
ERROR
SID : 551934 CDU_VERSION : 502810
Path : \EURECA\EGSE\TEST\CLS_TEST\HLCL\SPR\MAX_REAL
Inside sub–program : INSERT_REAL_VALUE
Inside sub–program : INSERT_REAL_VALUE raised ORACLE_ERROR
F_VALUE in T_DEFAULT_REAL_VALUE ORA–02290: check constraint (.) violated
Re–raising MPS_DEFINITIONS.ORACLE_ERROR
———

———————————————report from MDB_UCL———————————————
ERROR
SID : 551934 CDU_VERSION : 502810
Path : \EURECA\EGSE\TEST\CLS_TEST\HLCL\SPR\MAX_REAL
Inside sub–program : raised ORACLE_ERROR
ORA–00000: normal, successful completion
Re–raising MPS_DEFINITIONS.ORACLE_ERROR

A change of the expression max(real) by the HLCL command window output:

HLCL: put(max(real))
3.40282346638529E+038

sequence hlcl_sequ_in2 (in rea: real := 3.40282346638529E+038);
end hlcl_sequ_in2;

leads to compile error: Value out of bounds.

Workaround

Edited by: Paul Athmann

As the problem is due to different definitions of MAX_FLOAT in the systems involved (CGS/Ada+C: 3.402823466E+38, MDB: 3.404282E+38). Therefore, do
not use values higher than 3.404282E+38.

[6] COL–RIBRE–SPR–7739
CGS: I–Code Size limited to 32k

Description:

The size of the i–Code created by the CLS–Editor seems to be limited to 32 kbytes. This is not acceptable for DSS.

Workaround

Edited by: Paul Athmann

To limit the size of I–Code, the following can be done:

a) Split into several APs:
Write lower level APs which perform parts of this AP

b) Put Procedures into UCL User Libraries

c) Optimise Source Code
(e.g. Put things which are identical or similar into
procedures/functions)

d) Use HLCL Sequences instead of AP

e) Where APs are written to calculate values from other values:
use new feature ”Derived Value” (in CGS_4.3.0)

[7] COL–RIBRE–SPR–8125
CGS: HLCL Command Window – Return Status

Description:

When entering an HLCL command the return staus is displayed in the command window as integer number. The user

has to investigate in the ground system library (using the CLS editor) what's
the meaning of this number or the user has to know the ground library procedure to convert the number into the corresponding text or the user has to look into the documentation (SUM, CGS ICD).
Today this is an example for a not user friendly MMI.

Workaround

Edited by: Paul Athmann

In the UCL GROUND_LIBRARY, a constant STATUS_STRING has been defined to
allow conversion of Status Codes into readable text.

In HLCL use PUT STATUS_STRING(<return_code>) .

In UCL_APs, the readable text might be sent to the workstation:

WRITE_MESSAGE_TO_USER(STATUS_STRING(<return_code>));

[8] COL–RIBRE–SPR–8843
CGS: C SWEU/SWRU load functions ignore the MDB ownership, consistency and locking concepts.

Description:

1. Altough the end item is owned by another user the , e.g.interactive , Load SW Datasets function is storing values.

2. It is a MDA concept, that updates of end items are notified by an update of the consistency values (status and time) of the CDU version and all CCUs referencing this CDU, directly and
indirectly. The load_sw functions do ignore this rule.

3. The e.g.interactive , Load SW Datasets function is storing values for an end item currently locked by another process, e.g. DDED. or maintain references.

Workaround

Edited by: Uwe Hohnhorst

For point 2 of SPR:

Don't trust consistency status/date of CDU/CCU version. Run the consistency checker upon completion of SWOP loading to ensure proper states.

For point 3 of SPR:

Avoid parallel read and write activities for the end items or better whole scope involved (such as CDI generation, MMI generation, I_MDB updates, BDE load etc.) and wait for completion of
SWOP loading. Take into account that SWOP loading is executed in background (see also SPR–8844). This is in particular of importance when the SWOP loading is embedded in an overall batch
generation script.

[9] COL–RIBRE–SPR–4439
CGSI: proada is hanging

Description:

Precompilation of dbs_ma_logged_data_file.pad with proada from Oracle 7.3.2 does not terminate. The file is correctly precompiled with an older version of proada (i.e. sunOS version).

This problem has been experienced at Spacebel for several months and is experienced at DASA now.

The UNIX utility ”truss” on proada shows:

```
...
sigaction(SIGCLD, 0xEFFF6428, 0xEFFF64A8) = 0
setcontext(0xEFFF6678)
Received signal #18, SIGCLD [caught]
sigaction(SIGCLD, 0xEFFF6428, 0xEFFF64A8) = 0
setcontext(0xEFFF6678)
Received signal #18, SIGCLD [caught]
sigaction(SIGCLD, 0xEFFF6428, 0xEFFF64A8) = 0
setcontext(0xEFFF6678)
Received signal #18, SIGCLD [caught]
sigaction(SIGCLD, 0xEFFF6428, 0xEFFF64A8) = 0
setcontext(0xEFFF6678)
Received signal #18, SIGCLD [caught]
sigaction(SIGCLD, 0xEFFF6428, 0xEFFF64A8) = 0
setcontext(0xEFFF6678)
Received signal #18, SIGCLD [caught]
sigaction(SIGCLD, 0xEFFF6428, 0xEFFF64A8) = 0
setcontext(0xEFFF6678)
Received signal #18, SIGCLD [caught]
...
```

an the UNIX command ”ps –edaf” shows

```
...
adt_3 5372 5371 99 12:40:30 pts/8 3:03 proada sqlcheck=full ireclen=200 oreclen=132 select_error=no dbms=V7 in-
ame=test
oracle 5373 5372 0 0:01 <defunct>
oracle 5384 5372 0 12:40:52 ? 0:01 oracle (DESCRIPTION=(LOCAL=YES)(ADDRESS=(PROTOCOL=beq)))
a
...
```

Note that this problem occurs often but not always.

Workaround

Edited by: Paul Athmann

To overcome the problem, the Pro*Ada Version for Oracle 6 can be used. The compiled result can then be further compiled with the nominal CGS 4.1.0 development environment.

[10] COL–RIBRE–SPR–4615
CGSI: HCI blocked when using find function in HLCL window

Description:

When searching for a string within the HLCL window using the FIND function from the window popup menu (search sometimes forward/backward) all HCI windows are blocked. The CPU load
was 100%. No HCI window was updated.

No messages were given.

Workaround

Edited by: Paul Athmann

Do not use ”find” in HLCL window

[11] COL–RIBRE–SPR–7346
CGSI: Message Handler: Missing Columns AP–Name, AP–ID

Description:

It is not possible to separate messages sent from different APs. DSS would like to have an output window for each AP. With additional colums in the message handler (AP Name, Link ID), several
message handlers could be started with different settings. Furthermore the information which AP has sent the message would be also very useful, if only one message handler is used.

Workaround

Edited by: Paul Athmann

To generate AP–specific message reports, the following is provided in CGS:

a) Use the FILE_IO SAS to generate a report in a file. Refer to CGS SUM
on how to use the SAS.

b) Use the LOG statement to put messages to into the event log.
Use a unique Identification Text within the messages for each AP
Use TEV to select the messages for the specific AP to generate
the AP–specific report

To generate an AP specific online display of messages, use a set of enditems of type EGSE_BYTES-TREAM_SW_VARIABLE for each AP. Write messages
into these enditems (via assignment, e.g. \a\b\c_1 := ”message”;) in a cyclic way. Use a synoptic per AP to display the software variables.

[12] COL–RIBRE–SPR–8727
CGSI: Problem with /testnode directories after update

Description:

After update from CGS V 4.2.0.11 to V 4.3.1, the automount of the /testnode file systems from/on the testnodes doesn't work properly.
With CGS V 4.3, the testnode data are exported from /export/testnode/<node name>, instead of previous /test-node/<node name>.
Since existing /testnode/<node name> is not removed by deinstall_cgsi for the previous configuration nor in any way considered by install_cgsi for the new version, a conflict arises on the test
nodes when they try to automount their local /export/testnode/<node name> over /testnode/<node name>.

Workaround

Edited by: Andreas Schulz

During the upgrade procedure, perform the following after running deinstall_cgsi on the test nodes (CGS 4.3 Installation manual section 9.3) :
on each test node :
– login as root
mv /testnode /export/testnode

[13] COL–RIBRE–SPR–5876
CLS: BITSET Range Problem

Description:

type bitset is defined as

```
type bitset = set of integer (0..31);
```

However the following assignment in the HLCL window fails:

```
var z: integer := integer({31})
                                  ^
Expression out of range
```

Workaround

Edited by: Ulf Schmidt

To convert a BITSET to an INTEGER, use the following function:

```
FUNCTION bitset_to_integer (b: bitset): integer;
BEGIN
RETURN integer(b–{31})+min(integer)*integer({31} in b);
END bitset_to_integer;
```

[14] COL–RIBRE–SPR–7358
CLS: Enhancement: CLS backup functionality

Description:

There is no (automatic) possibility to store former versions of an AP or an UCL User library. DSS proposes to store the source code also in the Unix file system. The directory where the backup
files are created could be specified in a command line switch of the CLS Editor. The filename could be the name of the AP with a time tag extension.

Workaround

Edited by: Paul Athmann

Use storage in files (”File –> Save As” function in CLS–Editor) to store individual backups of UCL Source Code items

[15] COL–RIBRE–SPR–7660
CLS: AP cannot use its own pathname: FDBOARD

Description:

It is not possible to use the pathname of an Ap within the AP itself.
Example: If the AP shall check whether another instance of the AP is already running, it would be great to use the Ground Library Command ’Get_AP_ID’. This call is not possible, since the CLS
compiler reports the error:

”Requested item is not up to date: not yet compiled?”

Workaround

Edited by: Alexander Heim

For the example problem, there exists a workaround:

```
TYPE Overlay = record
case B: Boolean
when false : Path : PATHNAME;
when true : AP : AP_NAME;
end case;
end record;
VARIABLE Union : Overlay;

begin
...

Union.Path := Path (”\this\is\the\pathname\of\myself”);
GET_AP_ID(AP: Union.AP,
NODE: \\,
NUMBER: Number_Of_APs,
ID_LIST: ID_List,
STATUS: UCL_STAT);

....

end;
```

[16] COL–RIBRE–SPR–6953
CSS: CSS: ICP does not allow to access on–board items

Description:

Although MDE allows to bind on–board items (commands and measurements) to function block inputs and outputs, the ICP does not allow to access these on–board items, e. g. to read the value of
a measurement.

This would be a great help to FLAP developers who usually think in terms of on–baord items, not of inputs and outputs in function blocks of a model. Moreover,

Workaround

Edited by: Andreas Schulz

To get mapping from model interface to referenced onboard items, open simulation observer resp. model inspector window in parallel and select corresponding interface items to get referenced
onboard item information.

[17] COL–RIBRE–SPR–8002
CSS: Syntax error in generated HLCL sequence

Description:

During reggression test of CGS V4.3.0 the following is observed:

The generated HLCL sequence has syntactical errors. Some of the engineering untits are enclosed in [[instead of [(see attached sequence).

A test description is givenb in AIV–Notes of SPR–7210.

Workaround

Edited by: Andreas Schulz

To remove extra square brackets from engineering unit definitions in old (pre–CGS 4.0) CSS model sources :
– In CSS Database Browser: Export model to file system
– Copy file system path from exported model’s properties
– in shell tool : cd <paste copied model’s file system path>
– cd user_def
– edit the file named source and replace all occurrences of the two–character sequences ”’[” and ”]’” (i.e. tick–bracket and vice versa) by ”’” (tick).

NOTE: the ”’” – characters are significant, in order to restrict the replacement to the unit definitions for FB I/O items.

mv source source.old;sed –e s/\’\\\[/\’/g\;s/\\\]\’/\’/g < source.old > source

– In CSS Database Browser: Import model with changed source from file system to database.

[18] COL–RIBRE–SPR–8005
CSS: Monitoring tables etc. lost with each delivery of SIMM

Description:

1. Each time an APM SIMM is delivered, previously developed monitoring tables, logging tables and state vectors are lost.

2. If monitoring/logging tables and statevectors are developed for a model they cannot be stored unless the model CDU is set into status 'development'.

The common cause of these problems is, that development products of the integration and test team or the instructor team (tables, statevectors) and development products of the SIMM development
team (APM SIMM) are stored in the same CDU, which can only be provided and maintained by ONE development product source.

Workaround

Edited by: Paul Athmann

From Report:

use copy / paste of the CSS database browser to add simulation tables into a new model releas

[19] COL–RIBRE–SPR–8553
CSS: CSS_DB_INTERNAL_ERROR raised

Description:

During regression test for SPR–7317 I performed the following
steps:

.Create end item of type TOPLEVEL_COMPOSITE_FP named \EURECA\SIMULATOR\SUBSYS-TEM\TEST_CGS_4_3_0\MODEL_SPR_7317

.Tools–CSS Start
.Select MDE and start CSS
(CSS Database Browser and Model editor windows appear)
.Select from popup menu edit
.Create synchronous function block
.Create two input and two output element and connect them to the function block
.Via DBB assign inputs to the following database end items

\EURECA\SIMULATOR\SUBSYSTEM\TEST_DATA\STIMULI\ONBOARD_OFF
\EURECA\SIMULATOR\SUBSYSTEM\TEST_DATA\STIMULI\ONBOARD_ON

and set activation to activate on change for both inputs

.Via DBB assign outputs to the following database end items
\EURECA\SIMULATOR\SUBSYSTEM\TEST_DATA\MEAS\SIMPLE_DISC_MEAS
\EURECA\SIMULATOR\SUBSYSTEM\TEST_DATA\MEAS\COMP_DISC_MEAS

and set initial value to Statecode "UNDEFINED "
.Configure Simulation Kernel with options forced and sync atomic source files

At this step the following error was reported in a popup window:

Internal Error – Database Reply Error: CSS_DB_INTERNAL_ERROR raised, found by HANDLE_CONNECTION

After removing the directory

/cgs_user/cgs_1/models.lib/eureca–dummy_mission.3/library_sid_552885–V1.0.0/model_sid_553342/sun5

a retry has been performed which then worked

Workaround

Edited by: Andreas Schulz

When invoking Configure–>Simulator Kernel from the CSS Model Editor, the CSS CTG may occasionally fail to compile and link the kernel. In CGS versions below 4.4, this will crash the model
editor and pop up an error message window reporting some CSS_DB_INTERNAL_ERROR. Starting with version 4.4, there will be a message in the CTG message window ('Configuration for
Model...') instead, reporting 'Mapping table not found, has model been configured?'.

In any such case, it has to be assumed that the model's Ada library has been corrupted, so the owner should remove the model's sun5 directory branch (indicated in the CSS Database Browser as
(e.g.):
directory: models.lib/eureca–dummy_mission.3/library_sid_552885–V1.0.0/model_sid_292153
manually before proceding:
\rm –rf ~/models.lib/eureca–dummy_mission.3/library_sid_552885–V1.0.0/model_sid_292153/sun5
Trying again to configure the model should usually succeed then.

[20] COL–RIBRE–SPR–5264
FWDU: FWDU: Problem with Select List DFD

Description:

If for a Select List DFD the option "Add Buttons?" is set to YES (which is the default) the expected buttons OK and CANCEL are not displayed (neither using "View DFDs" nor "Preview"
command).

To the contrary, this works with the commercial Sammi 3.0.12.

Workaround

Edited by: Per Bendsen

The buttons can almost not be seen but the top of the button (maybe the bottom of it) can be seen in the bottom of the listbox window. It is only one or two pixel high. Click on this to press the
buttons.

[21] COL–RIBRE–SPR–6030
FWDU: FWDU – missing onboard command possibility

Description:

The DFD ”list” (static select list item–command entries) does not provide the possibility to select onboard commands like the DFD ”push button” or ”menu”.

Workaround

Edited by: Per Bendsen

Use the Standard Command List (FWDU_LIST_TEXT) and attach this to the list.

[22] COL–RIBRE–SPR–6381
FWDU: FWDU – Pathnames are lost in LIST & MENU DFDs

Description:

During freehand testing in the course of FWDU 3.2.2 qualification the following problem was encountered in the FWDU Format Editor:

– create 1st LIST DFD, place it somewhere, name it
– select ”standard” as ”List Category”
– attach Standard List Table end item
– Save DFD, Cancel DFD

– create 2nd LIST DFD, place it somewhere, name it
(leave as ”static”, observe that pathname entered for 1st LIST DFD is automatically copied)
– Save DFD & Cancel DFD

– Edit.DFD Attrib..
– select 2nd DFD (which is ”static”)
– delete Standard List Table pathname
– Save DFD & Cancel DFD
– File Save

– File.Dismiss & File.Open display again
– examine Standard List Table pathname of 1st LIST DFD

==> Pathname gone as well.
==> No error reported on required table name in subsequent File.Save.
==> Pathname still contained in display’s Xref list

Workaround

Edited by: Paul Athmann

From MIN–114–050–ROV:

If a command file is to be attached to a list or a menu DDO, remember to select ”standard” radio button before attaching the FWDU_LIST_TEXT end item

[23] COL–RIBRE–SPR–6908
FWDU: FWDU: Error message while editing Selection List, type Standard

Description:

While testing the fix of SPR 5250–001, it was noticed that messages are sometimes displayed the first time a selection List of type Standard is edited.
The Message_popup window shows the following:

>do_font: Incorrect Font Name Entered.
>do_font: Incorrect Font Name Entered.

The window disappears after pressing the ”Continue”–button.

The messages do not impact the functionality.
Recommended solution: Work–around: Just press continue.

Workaround

Edited by: Doris Carl

Press ”Continue” button after message pop up window appears.
Go on with next working step. The message has no influence on FWDU functionality.

[24] COL–RIBRE–SPR–8165
GWDU: GWDU: Synoptic Previewer Failure

Description:

This is a new problem onserved in 4.3: The GWDU Synoptic Previewer frequently crashes with the following behaviour: The Synoptic Picture becomes black and the previewer control buttons
(start, stop) become grey. After 2–3 seconds the windows (Previewer and GWDU Editor) vanishe. Sometimes it is afterwards not posssible to re–open the synoptic picture before rebooting the
database server (GWDU starts but picture remains pale, Editor has to be killed).
The output of ’Check_MDB_Item’ is attached to this SPR.

Workaround

Edited by: Paul Athmann

From SPA–A:

To display integer values in a digits graph, the best solution is to not specify a C format at all, an alternative may be to display an integer value as a float (e.g. conversion character %f). To clear the C format, delete the digits graph and create a new one.

[25] COL–RIBRE–SPR–8182
GWDU: Label of Popup Menu Element unintentionally changed

Description:

The following actions change (insert a blank) the label of a popup–menu:

1. Edit an existing popup–menu which has no label
2. leave the input element editor (press 'accept') without having edited the label
3. A blank (which is displayed black)has been inserted to the input button element

Workaround: Before leaving the input editor window, delete the (invisible) blank in the label box.

Workaround

From SPR:
Before leaving the input editor window, delete the (invisible) blank in the label box.

[26] COL–RIBRE–SPR–7056
HCI: HLCL Code running in Syn.Display is not interruptable

Description:

A HLCL command window allows the user to control the execution of the active HLCL sequence (cmds: suspend/resume/cancel).
The same functionality doesn't work when the same HLCL sequence is executed in a Synoptic Display.

Workaround

Possible workarounds:

1) Implement HLCL code as UCL AP and start it on a test node. This will be interruptable by abort_ap command.
(This cannot be done, however, for HLCL sequences containing commands
directed to CSS or HLCL local commands)

2) Quit the whole synoptic to interrupt a HLCL sequence
(disadvantage: the actual data history is then lost when restarting it).

[27] COL–RIBRE–SPR–7327
HCI: HCI can't connect to TES

Description:

Sometimes HCI reports after start and immediately load of ScreenSetup in message handler "cannot connect to TES".
Thereafter no connection to TES is established. After restart of HCI, it works
fife.

Workaround

Edited by: Martin Danne

Start System Advisory. HCI will then automatically (re)connect to all participating test nodes.

[28] COL–RIBRE–SPR–8146
HCI: CGS does not work after disconnect/connect the TN LAN

Description:

In testprocedure COL–SEA–QTP–001–ABT issue 6 step 7.5–64 ff failed.
After disconnect the Lan from the Test Node and reconnect after a time, no CGS operations works (e.g. Stop_acquisition 'enditem'). It looks like the enditem is not known any more by the system.

Workaround

Edited by: Paul Athmann

Call System Advisory Window to restablish connections to the test nodes.

[29] COL–RIBRE–SPR–8648
HCI: Explorer spoils HCI screen setup maintenance

Description:

If the explorer in an HCI has been started and the screen setup has been saved by the screen setup maintenance tool, the next time HCI is started the explorer is not started. But it is present in the background, since no explorer can be started anymore. Moreover if HCI is been exited, it hangs in a timeout of about 60 seconds, and then presents the user the choice to execute a forced exit or to wait on. If the explorer is taken out of the screen setup, everything works fine.

Workaround

Edited by: Paul Athmann

Do not use screen setups having the Explorer Window defined.
Start Explorer always manually.

[30] COL–RIBRE–SPR–5350
MDA: Enumeration type and variant composite aggregates

Description:

With the dadi tool you may define enumerations where the enumeration values are words with small letters. This works fine in all over MDB (and maybe also VICOS – I did not test) but not if you choose this enumeration type as discriminant part of a composit aggregate. Reason is, that the dadi editor which allows to create the variant part by entering one enumeration value and the associated aggregate. But unfortunately the enumeration value field of this editor allows only for capital letters. Even cut and past of the values will capitalize them. During editing you may think this will however work but if you try to call this composite aggregate with the dded editor it will not be visible at all.

Workaround

Edited by: Udo Maron

Use only upper case letters when defining enumeration values in MDB.

[31] COL–RIBRE–SPR–6250
MDA: CCU Difference report causes Storage Error

Description:

When trying to create a CCU Difference report on int2dbs as int2usr1 between Version 1.0.2 and 1.1.0 of the STF CCU at the following Pathname level :

\APM Mission:SUBCO(4) FLTSYS\DMSS

the following error message is reported :

```
########################################
## source_node: ”int2dbs”
## source_pid: 27211
## number: 1
## target_node: ”int2dbs”
## target_user: ”int2usr1”
## mnemonic: ””
## class: ”ORDINARY”
## acknowledge: ”ACK_NOT_REQUIRED”
## handling: ”LOG_AND_DISPLAY”
## timestamp: ”1999 FEB 4 10:42:45”
## assembly: ”MPS”
## text: ”A call to sub–program REPORT_CONTROLLER in module REPORT_CONTROLLER raised storage_error”
## extra_text: ””
## supp_text: ””
########################################
** MAIN PROGRAM ABANDONED — EXCEPTION ”storage_error” RAISED
```

Although a window is displayed showing some differences, it is impossible to tell whether these are the total differences. At this stage this will mean a manual walkthrough of changes that could
result in a delay to the generation of the 1.Z data and software.

Workaround

Edited by: Thomas Schipper

Detailed CDU reports still work on the DMS delivered data, so far.

[32] COL–RIBRE–SPR–6763
MDA: HCI crash

Description:

Starting an AP from a synoptic button. The AP starts some sub APs. 5 Synoptic pictures will be displayed. At the end of this scenario HCI crashes. A CORE dump is available(int2dbs:
~cgs2dbs/core.hci_crash).

Workaround

Edited by: Bob Davenport

The processes associated with the synoptic continue to work in the background. To start the synoptics go into the CGS Task Selector and restart the Online Test Control tool. The synoptics will
automatically come up in the active state.

[33] COL–RIBRE–SPR–7947
MDA: I_MDB: Pathname Area corrupted

Description:

During Free–Hand test of SPR–7331 the following behaviour was observed:

Following the test steps, as defined in AIV–Notes of SPR–7331. At step 3, after closing the detailed data window the pathname area is coruppted (see attached screen dump).

After an window refresh, the I_MDB navigator shows the correct pathname.

Workaround

Edited by: Paul Athmann

From SPA:

– Select the ’Refresh’ menu entry from the windos frame menu
– OR move the I_MDB window on the desktop
– OR resize the I_MDB window

[34] COL–RIBRE–SPR–8781
MDA: CLS cannot be called from ’Direct End Item Access’ of I_MDB in CCU

Description:

If a UCL_AP end item shall be editet there are always – from CDU or CCU – two ways to select it: 1. navigate to the AP, select it and then select from the tools menu the CLS editor. 2. From
within the CDU or CCU, use the ’Direct End Item Access’, enter the End Item Type and let the tool show the list of end items in this CU. Then select the desired end item and then select from the
tools menu the CLS editor.

But unfortunatelly in the second case – and here only in the case of a CCU – there is an error message: ’CLS Editor: Environment specification has invalid syntax’. Further analysis has shown that
in case of ’Direct End Item Acces’ from a CCU, in the parameter list the name of the CCU is missing which has to come at the second last place.

It is not analysed here in which version of CGS this error has been introduced and whether it is still present in CGS V4.3.1.

Workaround

Use Direct Enditem Access only to find the respective AP. Navigate with I_MDB to the AP and then call the CLS Editor via the ’Tools’ Menu.

[35] COL–RIBRE–SPR–5573
TES: incorrect behaviour of TSCV

Description:

1/ selecting an IDLE test configuration having 2 test nodes TES_01 and TES_02 where TES_01 is AVAILABLE and TES_02 not running (NO_CONTACT).

Selecting then TES_01 and performing the action NODE—>SETUP will:
– switch the test configuration into the ACTIVE mode
– setup TES_01 (into mode IDLE).

Performing then the action NODE—>START will start TES_01 (into EXECUTING mode). TES_02 is still not running (NO_CONTACT).

2/ selecting an IDLE test configuration having 2 test nodes TES_01 and TES_02 where TES_01 is AVAILABLE and TES_02 not running (NO_CONTACT).

Selecting then TES_01 and performing the action NODE—>START will:
– switch the test configuration ito the ACTIVE mode
– LAUNCH TES_02 (into AVAILABLE mode) ???????
– setup TES_01 (into mode IDLE
– SETUP TES_02 (into mode IDLE) ???????
– and then start TES_01 (into EXECUTING mode).

The 2 steps marked with ”???????” were not expected

Workaround

If individual test nodes need to be started, and no interaction with other test nodes are wanted:

Use ’Participating’ flag of the test nodes to define the test configuration with a single test node. Startup then the individual test node.

[36] COL–RIBRE–SPR–7776
TES: Raw Data Dump Tool does not display every TM packet

Description:

If TM packets are observed using the Raw Data Dump Tool, not every TM packet which can be observed on the CC Bus is displayed.

This can be verified by observing the TM packet’s time tag and sequence count. Every third or fourth packet is not displayed.

The effect can be demonstrated by executing Software System Test 5.1 (Telemetry Test).

Workaround

To look to every packet, use RAW_DATA_DUMP tool of TEV, which works on the data archived.

This tool allows to jump from packet to packet and to inspect the packet as long as the user desires. No packet is lost. The layout of the window is similar. The dump can be done online during the test session or offline, after the test session.

[37] COL–RIBRE–SPR–7649
TEV: old event result files not readable

Description:

The CGS 4.3 TEV is not able to read old Event Result Files (4.2). TEV stop with:

ERROR : TEV Internal error.Exception storage_error raised.
Consequence : Current operation fails with unexpected error.
Recovery action : No specific recovery. See system administrator.
Debug information : LOAD_CURRENT_RESULT

4.3 event result files can be load.

Workaround

Edited by: Paul Athmann

Use CGS 4.2 system to create ASCII lists of events instead of result files.
Transfer ASCII files instead of Result Files.

Note: Only event result files are incompatible. However, the event result files can be regenerated by re–evaluation from test session, i.e. generating a new event list from the old test session using CGS 4.3.0 (after transfer/upgrade of the test session to the 4.3.0 environment)

7 CGS 4.3 to CGS 4.4 Compatibility Issues

The following is a description of CGS 4.3 to CGS 4.4 compatibility and functional extensions implemented in CGS_4.4

7.1 New Features in CGS 4.4

The following features in CGS 4.4 are new relative to CGS version 4.3.1**.**

- Updated Commercial Baseline
  - Version 6.2.3d of Sun Ada Compiler (VADS)
  - Use actual set of Solaris 2.6 recommended patches
- MDB Data Structures
  - Calibration Definitions for Discrete Measurements:
    - Add raw value range / statecode;
    - Increase number of statecodes from 32 to 256
  - Support for definition of Critical GDUs
  - Add Unsigned Integer as type to Bitstream–Layout items (i.e for predefined values of TC and Binary Packets)
  - Consistency Checks: Some further refinements on attribute checks
  - Consistency Checks for bitstream layout items: unique positions
- MDB Interactive Interface / MDA Functions
  - Allow CCUs to be referenced on same system tree level
  - Provide function to freeze all CDUs of a CCU in one step
  - Provide function to change owner of all CCUs in one step
  - For CM User: Allow re–compilation of items in non–owned CDUs
  - *(*) New design of Consistency checker*
    - *– selection of checks on enditem types*
    - *– selection of check classes (mandatory,referential,...)*
    - *– check categories: Error, Warning,Advisory*
    - *– introduction of loadable check profiles*
  - *(**) "HTML Report Generation" Tool provided as Utility for CGS (creates HTML/XML files from MDB for browsing in any web browser)*
  - (**) *Integrate CLS tools for UCL APs, HLCL Sequences and CPL scripts*
    - *Source Code Tools: mdb, generate, check, dependencies, numlib, ucl2html, ucl_design*
    - *I–Code Tools: assemble, decode*
    - *Simulation Tools: dms, hlcl, debug, interpret*

- TRDB Improvements
  - FA_SAS: Batch Mode improvements
  - Set default to not start the FA_SAS for a test session
  - Display usage of MO disk permanently during export of Test Sessions
  - Inform user on MO disk sequence for a scattered session (store list of disks on each disk)
  - Detect defective MO disks prior to mounting
  - Improved Handling of Disk–Full situations
  - Allow Virtual MO device (e.g. online disk) for FA_SAS
  - New function in FILE_IO_LIB: Add file to test session in TRDB
- Stimuli, TC, SW Commanding
  - Support for Critical GDU Sending / Authorization
  - Allow to suppress GDU/TC Verification (via TES_CONFIG)
- User Interface Updates
  - New GO/NOGO Window
  - New ”Dynamic Measurement/Monitoring” Window
- Monitoring / Calibration / Data Processing
  - Up to 256 Statecodes in discrete calibrations
  - Definition of raw value range per statecode in discrete calibrations
  - Improve checking on ranges in case of float values
  - Allow same raw values for different point pairs in calibration curve (0 – gradients)
- HLCL/UCL/CPL Language Support
  - Ground Library Updates:
    - Add time tag to items stored in HLCL History Window
    - New Extra_Text, Group, Type – Parameter in the command WRITE_MESSAGE_TO_USER
    - New Window Options – Parameter in the following commands DISPLAY_PICTURE, READ_MESSAGE_FROM_USER
    - New command to switch the CCSDS APID in TM/TC Packets SET_CCSDS_APID
    - New command to define default workstation for message output from APs SET_DEFAULT_WORKSTATION
    - New command to start SMT relative to LOT in APs START_SMT_WITH_OFFSET
    - Return of Application Execution Status from SAS to APs
  - Allow for Type_of construct in UCL/HLCL
  - Improve handling of Onboard Flag for parametrised enditems
  - Improve handling of ALIAS references when detecting dependencies during compilation

  - Allow for array definitions with units in UCL
  - Check for unintended references to ground items in onboard Automated Procedures
  -

- Software Development Support
  - New Implementation of Load Program for SWRUs/ SWEUs
  - Support for files generated in PDB environment
- Test Evaluation
  - Improve performance and size of intermediate files in raw data dump processing
  - Generate external file (ADT Format) only on request
  - More Navigation Support in Raw Data Dumps
- Simulation Model Execution (CSS)
  - add type info to mapping file to allow better mapping to onboard/EGSE enditems
  - Add SMT to State Vector
- External Interface
  - TES_API: New procedure: acknowledge with application return code
  - CSS/CMAS API Extensions
    - *t*imetagged start/stop commands
    - delivery of state and error messages
- Major Bug Fixes
  - SPR–7800: Communication Software Problem: Overflow of buffer in Timeout Situations
- Removal/Extension of Restrictions
  - Number of Statecodes (see above)

Note: (*) Functions/Changes are not part of CGS_4.4.0 delivery, but are or will be available as Quick Patches

(**) Software is available on a use–as–is basis on a separate “CGS ADD–ON SOFTWARE” CD

7.2 Old Features No Longer Available

In SWES/MDA, CGS does not support the old way of storing SWRU/SWEUs in the MDB anymore

7.3 Incompatibilities with CGS 4.3 Data

7.3.1 MDB Structures

Items stored in the MDB 4.x (x < 4) version may be exported to MDB_4.4.0 version, but not the other way round.

7.3.2 TRDB Structures

There is no change in the TRDB structures in this version.

7.4 Upgrading to CGS 4.4

General

- Save user dependent configuration and data files

  There are configuration files such as
  – CGS Product Configuration Parameter files
  – User Profiles
  – Message Handler Properties
  – HCI Screen Setup Files
  – HLCL Login/Logout Sequences
  – HLCL Sequences stored in UNIX file system
  – TEV Evaluation Definition Files
  – TEV Result files

- Run CGS 4.4 installation procedure
- Configure CGS
  - Re–install old CGS configuration files
    (System Topology Table, User Profiles, etc)

  To ensure correct working of your CGS environment and to avoid errors in your application after the upgrade please perform following tasks in addition:

MDB

There are some issues to follow when upgrading MDB 4.3.0 to MDB 4.4.0:

- Adaptation of MDB data
  - Insertion of the new **GROUND_LIBRARY** into the MDB
    (see above under Post–Installation)
  - Insertion of the new **FILE_IO_LIB** into the MDB
    (see above under Post–Installation)
  - Recompilation of Automated Procedures
    Some APs migth need adaptation because of new parameter profiles of UCL Ground Library procedures (see above)
  - Re–run of the Consistency Checker
  - Re–create data for test nodes (see ”Generate SCOE files”)

SAS

SAS are **required** to be recompiled with the latest CGS_API libraries (see above).

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